Building A Robust Workforce in Electric Power Engineering

Albuquerque, New Mexico

March 16-17, 2023

(Co-located with ECEDHA Conference; co-sponsored by Sandia National Lab and ECEDHA)

Workshop Agenda
Thursday, March 16, 2023

7:00 am  Breakfast

8:00 am  Welcome and the Urgency of this topic:
Randy Victora - Welcome Remarks, Head, ECE, Univ. of Minnesota
John Janowiak - Welcome Remarks, ECEDHA
Siddharth Raju – Workshop Mission and Agenda, ECE, Univ. of Minnesota
Aranya Chakrabortty – Program Director, National Science Foundation
Lynn J. Petersen, CAPT USN(Ret) – Program Officer, Office of Naval Research
Al Romig – Role of NAE, Executive Director, National Academy of Engineering
Stan Atcitty – Diversity, Equity, and Inclusivity, Sandia National Laboratory

10:00 am  Coffee break and networking
10:30 am
Pramod Khargonekar - VP of Research, University of California, Irvine
Ahmed Rubaai – Head, ECE and Computer Science, Howard University
Joan Carter - Engineering Track in Inver Hills Community College
Matt Brown – Teaching a Pipeline Course in Richfield High School

11:45 am
Proposed Multiple Pathways to a Robust Power Engineering Education – UMN Team

— Pipeline Course and Lab that can be taught in High Schools
— Proposed Three Courses and Labs that Community Colleges can offer for a Certificate in “Electric Power Engineering”
— Overview of Courses and Labs for BS/MS/PhD degrees discussed tomorrow

12:30 pm
Lunch and Networking
1:30 pm       Panel Session Moderated by Charlie Smith - ESIG: “Rewarding Careers in Electric Power Engineering,”

3:30 pm       Refreshment Break and Networking
4:00 pm  How relevant are our workforce development efforts in other developing countries and regions?

— Africa (James Momoh – by zoom)
— Middle East (Osama Mohammed)
— India (Bhuvaneswari Gurumoorthy – by zoom, and D. Venkatramanan)

5:00 pm  Open Discussion and Developing Action Items

6:00 pm  Poster Presentations along with Hearty(!) Appetizers – family cordially welcome.
Friday, March 17, 2023

7:00 am    Breakfast

8:00 am    Additional Workforce Development Efforts Underway –
            — Brandon Grainger – Prof, Univ. of Pittsburgh, Co-Director, AMPED Consortium
            — JR Jamora – Airforce Research Lab; Autonomy Technology Research Center
            — Norbert Doerry – Naval Research Lab;
              Douglas Fouts and Sheila Sklerov – Naval Postgraduate School

9:15 am    Interactive Textbooks - Ryan Barlow – Zybooks

9:45 am    Descriptions and Demonstration of courses and online labs by UMN Team

11:45 am   Adjourn
If you want to get somewhere else, you must run at least twice as fast as that!